



State of Utah

Department of  
Environmental Quality

Dianne R. Nielson, Ph.D.  
*Executive Director*

DIVISION OF AIR QUALITY  
Richard W. Sprott  
*Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY HERBERT  
*Lieutenant Governor*

DAQE-AN0439006-05

July 5, 2005

Russell Larsen  
Lakeview Rock Products  
900 North Redwood Road  
PO Box 540700  
N Salt Lake, Utah 84054

Dear Mr. Larsen:

Re: Approval Order: Addition of Aggregate Processing Equipment to Approval Order DAQE  
AN0439005-03, Salt Lake County, CDS B; NA; MAINT; NSPS; TITLE V MINOR  
Project Code: N0439-006

The attached document is the Approval Order (AO) for the above-referenced project.

Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. Please direct any technical questions you may have on this project to Mr. Jon Black. He may be reached at (801) 536-4047.

Sincerely,

Richard W. Sprott, Executive Secretary  
Utah Air Quality Board

RWS:CCP:JB:dn

cc: Salt Lake Valley Health Department  
Mike Owens, EPA Region VIII

**STATE OF UTAH**

**Department of Environmental Quality**

**Division of Air Quality**

**APPROVAL ORDER: ADDITION OF AGGREGATE  
PROCESSING EQUIPMENT TO APPROVAL ORDER  
DAQE-AN0439005-03**

Prepared By: Jon Black, Engineer  
(801) 536-4047  
Email: [jblack@utah.gov](mailto:jblack@utah.gov)

**APPROVAL ORDER NUMBER**

**DAQE-AN0439006-05**

**Date: July 5, 2005**

**Lakeview Rock Products**

**Source Contact  
Russell Larsen  
(801) 292-7161**

**Richard W. Sprott  
Executive Secretary  
Utah Air Quality Board**

### *Abstract*

***Lakeview Rock Products has submitted a Notice of Intent for the addition of a jaw crusher with a grizzly feeder, cone crusher, aggregate processing screens, and a vertical shaft impactor to their current Approval Order (AO) DAQE-AN0439005-03. Lakeview is located at 2300 North Beck Street, North Salt Lake, which is in Salt Lake County. Salt Lake County is a Non-attainment area of the National Ambient Air Quality Standards (NAAQS) for PM<sub>10</sub> and SO<sub>2</sub>, and is a Maintenance area for Ozone. Best Available Control Technology will apply to the new equipment and will required the use of wet suppression methods (water sprays and water trucks) to meet opacity limitations established in this AO. New Source Performance Standards (NSPS) 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants applies to this source. National Emission Standards for Hazardous Air Pollutants (NESHAP) and Maximum Available Control Technology (MACT) regulations do not apply to this source. Title V of the 1990 Clean Air Act applies to this source.***

***There will be a 0.84-ton per year increase in PM<sub>10</sub> emissions. The changes in emissions will result in the following potential to emit totals in tons per year: PM<sub>10</sub> = 12.62, NO<sub>x</sub> = 18.50, SO<sub>2</sub> = 1.64, CO = 7.99, VOC = 2.19.***

The project has been evaluated and found to be consistent with the requirements of the Utah Administrative Code Rule 307 (UAC R307). A public comment period was held in accordance with UAC R307-401-4 and no comments were received. This air quality AO authorizes the project with the following conditions, and failure to comply with any of the conditions may constitute a violation of this order.

### **General Conditions:**

1. This AO applies to the following company:

#### Site Office

Lakeview Rock Products  
900 North Redwood Road  
P.O. Box 258  
North Salt Lake, Utah 84054  
Phone Number (801) 292-1411  
Fax Number (801) 295-0530

The equipment listed in this AO shall be operated at the following location:

2300 North Beck Street, North Salt Lake, Salt Lake County

Universal Transverse Mercator (UTM) Coordinate System: UTM Datum NAD27  
4,519.4 kilometers Northing, 423.0 kilometers Easting, Zone 12

2. All definitions, terms, abbreviations, and references used in this AO conform to those used in the Utah Administrative Code (UAC) Rule 307 (R307) and Title 40 of the Code of Federal Regulations (40 CFR). Unless noted otherwise, references cited in these AO conditions refer to those rules.
3. The limits set forth in this AO shall not be exceeded without prior approval in accordance with R307-401.

4. Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved in accordance with R307-401-1.
5. All records referenced in this AO or in applicable NSPS standards, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Records shall be kept for the following minimum periods:
  - A. Emission inventories Five years from the due date of each emission statement or until the next inventory is due, whichever is longer.
  - B. All other records Two years
6. Lakeview Rock Products (Lakeview) shall install and operate the jaw crusher with grizzly feeder, cone crusher, impactor, and two processing screens and shall conduct its operations of the aggregate processing plant in accordance with the terms and conditions of this AO, which was written pursuant to Lakeview's Notice of Intent (NOI) submitted to the Division of Air Quality (DAQ) on March 4, 2005, and additional information submitted to the DAQ on March 24, 2005.
7. This AO shall replace the AO (DAQE-AN0439005-03) dated October 24, 2003.
8. The approved installations shall consist of the following equipment or equivalent\*:
  - A. One (1) Cedar Rapids cone crusher, Model RC54II, SS#047073, Mfg 1998\*
  - B. One (1) Cedar Rapids screen, Model S6203DB, SS#46515, Mfg 1998\*
  - C. One (1) 20"x36", Telesmith jaw crusher, SS#222M7855, Mfg 1991\*
  - D. One (1) 45" El Jay standard head cone crusher, SS#346, Mfg 2003\*
  - E. One (1) LJ 1145 cone crusher, SS#34B0381, Mfg 1981\*
  - F. One (1) 6' x 20' Cedar Rapids triple deck screen, SS#51016, Mfg 2003\*
  - G. One (1) 4'x10', Kolberg shaker screen, SS#22464810842D, Mfg 1984\*
  - H. One (1) 30"x42", jaw crusher, SS#35517, Mfg 1977\*
  - I. One (1) 6' x 12' TCI double deck screen, SS#306132, Mfg 2003\*
  - J. One (1) 42" x 17' Cedar Rapids vibrating grizzly feeder\*
  - K. One (1) Cedar Rapids jaw crusher with 36" x 17' vibrating grizzly feeder\*
  - L. One (1) Cedar Rapids triple deck screen, 6' x 20'\*

- M. One (1) Simplicity single deck screen, 5' x 16'\*
- N. One (1) Cedar Rapids cone crusher, 45", 280 MVP\*
- O. One (1) Remco vertical shaft impactor, 250 ST\*
- P. Miscellaneous loaders, dozers, conveyors, water and haul trucks

\* Equivalency shall be determined by the Executive Secretary.

9. Lakeview shall notify the Executive Secretary in writing when the installation of the equipment listed in Conditions #8.K, #8.L, #8.M, #8.N and #8.O has been completed and is operational, as an initial compliance inspection is required. To insure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section.

If construction and/or installation has not been completed within eighteen months from the date of this AO, the Executive Secretary shall be notified in writing on the status of the construction and/or installation. At that time, the Executive Secretary shall require documentation of the continuous construction and/or installation of the operation and may revoke the AO in accordance with R307-401-11.

### **Limitations and Tests Procedures**

10. Visible emissions from the following emission points shall not exceed the following values:
  - A. All crushers - 15% opacity
  - B. All screens - 10% opacity
  - C. All conveyor transfer points - 10% opacity
  - D. All diesel engines - 20% opacity
  - E. Conveyor drop points - 20% opacity
  - F. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

For sources that are subject to NSPS, opacity shall be determined by conducting observations in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9.

11. Visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall not exceed 20% opacity. Visible emissions determinations for traffic sources shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Six points, distributed along the length of the haul road or in the operational area, shall be chosen by the Executive Secretary or the Executive Secretary's representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be made one-half the vehicle length or greater behind the vehicle and at approximately one-half the height of the vehicle or greater. The accumulated six readings shall be averaged for the compliance value.

12. The following production limits shall not be exceeded:
  - A. 2,100,000 tons of processed aggregate material per rolling 12-month period
  - B. 3,000 hours of plant operation per rolling 12-month period.

To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by scale house records or vendor receipts. The records of production shall be kept on a daily basis. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log.

### **Roads and Fugitive Dust**

13. Lakeview shall abide by a fugitive dust control plan acceptable to the Executive Secretary for control of all dust sources associated with the North Salt Lake pit. Lakeview shall abide by the most current fugitive dust control plan approved by the Executive Secretary. The haul road speed shall be posted.
14. The facility shall abide by all applicable requirements of R307-309 for PM<sub>10</sub> non-attainment areas (Salt Lake, Utah, Davis Counties and Ogden City) for Fugitive Emission and Fugitive Dust sources.

The full text of R307-309, Davis, Salt Lake and Utah Counties, Ogden City and Any Non-attainment Area for PM<sub>10</sub>: Fugitive Emissions and Fugitive Dust, is included as Appendix A. However, to be in compliance, this facility must operate in accordance with the most current version of R307-309.

15. The pit entry haul road shall be paved and shall be swept one (1) time every four (4) hours and sprayed clean as dry conditions warrant or as determined necessary by the executive secretary in order to meet the opacity requirements of Condition #10. Records of cleaning paved roads shall be made available to the Executive Secretary or the Executive Secretary's representative upon request. The records shall include the two-year period prior to the date of the request.

### **Fuels**

16. The owner/operator shall use #1, #2 or a combination of #1 and #2 diesel fuel in the on-site equipment.

### **Federal Limitations and Requirements**

17. In addition to the requirements of this AO, all applicable provisions of 40 CFR 60, New Source Performance Standards (NSPS) Subpart A, 40 CFR 60.1 to 60.18 (General Provisions) and Subpart OOO, 40 CFR 60.670 to 60.676 (Standards of Performance for Nonmetallic Mineral Processing Plants) apply to this installation.

**Records & Miscellaneous**

18. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded.
19. The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring.
20. The owner/operator shall comply with R307-107. General Requirements: Unavoidable Breakdowns.

The Executive Secretary shall be notified in writing if the company is sold or changes its name.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including R307.

A copy of the rules, regulations and/or attachments addressed in this AO may be obtained by contacting the DAQ. The Utah Administrative Code R307 rules used by DAQ, the NOI guide, and other air quality documents and forms may also be obtained on the Internet at the following web site:

<http://www.airquality.utah.gov/>

The annual emissions estimations below include point source, fugitive emissions, fugitive dust, road dust, and tail pipe emissions. These emissions are for the purpose of determining the applicability of Prevention of Significant Deterioration, non-attainment area, maintenance area, and Title V source requirements of the R307. They are not to be used for determining compliance.

The Controlled Potential To Emit (PTE) emissions for this source (the entire plant) are currently calculated at the following values:

	<u>Pollutant</u>	<u>Tons/yr</u>
A.	PM <sub>10</sub> .....	12.62
B.	SO <sub>2</sub> .....	1.64
C.	NO <sub>x</sub> .....	18.50
D.	CO.....	7.99
E.	VOC.....	2.19

Approved By:

Richard W. Sprott, Executive Secretary  
Utah Air Quality Board